"Normal" (not life supporting !) medical equipment (ME) should be immune against any source of electromagnetic fieldstrength up to 3A/m (H-Field) and 3 V/m (E-Field) in the frequency range of 150 kHz (conducted 3 Vrms) to 2,5 GHz (IEC 60601-1-2, 2nd edition).

The recommended separation distance between portable and mobile radio frequency communication equipment and ME should be rated

max. output power of the transmitter (W)	separation distance 150kHz - 800MHz	separation distance 800MHz - 2,5GHz
0,01	0,12 m	0,23 m
0,1	0,37 m	0,74 m
1	1,17 m	2,33 m
10	3,67 m	7,38 m
100	11,67 m	23,33 m

Conversion oerstedt / gauss values:

- **Magnetic Field Strength (H)**
  A radiated wave's current gradient measured in amperes/m.
  1 A/m = 0.0125 oersteds
  1 oersted = 79.6 A/m
- **Magnetic Flux**
  1 weber = 10^8 Maxwell = 10^8 Lines.
- **Magnetic Flux Density (B)**
  Tesla (T) = 1 weber/m^2 = 10^4 gauss.
  1 gauss = 1 line/cm^2 = 1 maxwell/cm^2 = 7.936 x 10^5 A/m.

This should be helpful to evaluate the approximate separation distance between a present source of interference and the OPTIMUS generator - if there is any.

One should also consider the fact, that ME can also emit (unwanted) radiated RF - energy to the environment and to other electrical equipment (up to 30-37 dBuV/m if it is class B equipment and up to 40-47 dBuV/m if it is class A equipment).

An adequate separation distance will also reduce the risk of interference to other ME and electrical apparatus.